

PRO SHEETS™

HEAVY-DUTY FLOOR PROTECTION



Upon review of the relevant OSHA regulations and the characteristics of paperboard, we conclude that an SDS is not required for paperboard. An SDS is not required for paperboard because paperboard falls within the exemptions for a “manufactured article” and “wood products”.

Under OSHA regulations, an SDS is not required for manufactured “articles”. OSHA defines an “article” as a manufactured item: (I) which is formed to a specific shape or design during manufacture; (II) which has end use function (s) dependent on whole or in part upon its shape or design during end use; and (III) which under normal conditions of use does not release more than very small quantities, e.g. minute or trace amounts, of hazardous chemicals...and does not pose a physical hazard or health risk to employees. Under this definition, paperboard is not subject to SDS requirements because all three conditions are met. Paperboard is a manufactured item which is formed to a specific shape. The function of paperboard in cartons, boxes, and other end uses is dependent on its shape for its usefulness. Paperboard does not appear to emit hazardous chemicals under conditions of its normal manufacture or what we understand to be its normal conversion to finished product.

Paperboard is further exempt from SDS requirements as a “wood product”. “Wood products are exempt from SDS requirements because their primary hazard is flammability or combustibility, and because that hazard is unmistakable and obvious, it requires no further communication. OSHA has stated that “products such as lumber, plywood, and paper, are easily recognized in the workplace and pose a risk of fire that is obvious and well-known to the employees working with them”. Paperboard shares the relevant characteristics of these products.

PLEASE REVIEW THE FOLLOWING PAGES FOR SDS INFORMATION ON PRODUCT ADDITIVES.

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SPRAY-DRIED PRODUCTS



RAM BOARD

SECTION 1: IDENTIFICATION

Product Identifier: Spray Dried Products – EG-44, RC-32 CAT, RC-32 G, RC-32 Low Sodium, RC-32 LS FPS, TK-0224, SK-T 63

Product Description: Mineral pigment, or filler primarily used in paper, paper coatings, paints, adhesives, fluid cracking catalysts and plastic formulations.

Company Identification: Ram Board®, Inc.
Tinley Park, IL, 60487

Emergency Number: 911

SECTION 2: HAZARD IDENTIFICATION

Classification of the Substance or Mixture:



GHS08 Health hazard

Carc. 1A
STOT RE 1

H350 May cause cancer.
H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalative.

Label Elements

GHS label elements: The substance is classified and labeled according to the Globally Harmonized System (GHS).

Hazard Pictograms:



GHS08

Signal Word: Danger

Hazard-determining Components of Labeling: Quartz (SiO₂)

Hazard Statements: May cause cancer

Trade Name: Spray Dried Products – EG-44, RC-32 CAT, RC-32 G, RC-32 Low Sodium, RC-32 LS FPS, TK-0224, SK-T 63

2/10. Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalative.

Precautionary Statements: Do not breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Obtain special instructions before use.

SECTION 2: HAZARD IDENTIFICATION CONT.

Precautionary Statements Cont.: Do not handle until all safety precautions have been read and understood. IF exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national/international regulations.

Unknown Acute Toxicity Classification System: 99 percent of the mixture consists of ingredient(s) of unknown toxicity.

NFPA ratings (scale 0 - 4): Health = 1
Fire = 0
Reactivity = 0
None Known

Hazard(s) not Otherwise Classified (HNOC):

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Mixtures:

No	Chemical Name	CAS number	%
1	Kaolin	1332-58-7	>99%

Chemical Characterization: Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

Dangerous Components

CAS: 14808-60-7 RTECS: WV 7330000	Quartz (SiO ₂)	<1.0%
	Carc. 1A, H350; STOT RE 1, H372; Acute Tox. 4, H332; STOT SE 3, H335; Eye Irrit. 2B, H320	

SECTION 4: FIRST-AID MEASURES

Inhalation: Supply fresh air; consult doctor in case of complaints.

Ingestion: If large quantities are ingested, seek medical advice.

Skin Contact: Wash with soap and water. If skin irritation occurs, consult a doctor.

Eye Contact: Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

Most important symptoms/effects, both acute and delayed: Dusts may irritate the respiratory tract, skin and eyes. Symptoms may include coughing, discomfort in the chest and shortness of breath. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed: Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

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SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	CO ₂ , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Unsuitable Extinguishing Media:	None known.
Special Hazards Arising From The Substance or Mixture:	Non-combustible, substance itself does not burn.
Protective equipment for fire-fighters:	As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment And Emergency Procedures:	Wear protective equipment. Keep unprotected persons away. Avoid formation of dust.
Environmental Precautions: Methods and Materials for Containment and Cleaning Up:	Do not allow to enter sewers/surface or ground water. Ensure adequate ventilation. Avoid the formation of dust. Dispose contaminated material as waste according to section 13. Sweep up or vacuum up spillage and collect in suitable container for disposal.
Reference to Other Sections:	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling:	Ensure good ventilation/exhaustion at the workplace. Practice good housekeeping to prevent the accumulation of dust in the workplace. Avoid creating and breathing airborne dust. Practice good hygiene: wash hands before eating, drinking or smoking and do not store food, eat or drink in area where chemicals are handled. Avoid prolonged or repeated exposure.
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SECTION 7: HANDLING AND STORAGE CONT.

Conditions for Safe Storage:	Store in a cool, dry place. Store in a well ventilated place. Keep receptacle tightly sealed.
Incompatible Materials:	None known

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)		
Components	Type	Value
Quartz (SiO ₂) (CAS #14808-60-7)	TWA	0.05 mg/m ³

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)		
Components	Type	Value
Kaolin (CAS# 1332-58-7)	TWA	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)

US. OSHA Table Z-2 (29 CFR 1910.1000)

None of the ingredients in this product is listed.

US. OSHA Table Z-3 (29 CFR 1910.1000)		
Components	Type	Value
Quartz (SiO ₂) (CAS #14808-60-7)	TWA	250/(%SiO ₂ +5) mppcf (Respirable) 10/(%SiO ₂ +2) mg/m ³ (Respirable) 30/(%SiO ₂ +2) mg/m ³ (Total dust)

US. ACGIH Threshold Limit Values		
Components	Type	Value
Kaolin (CAS# 1332-58-7) Quartz (SiO ₂) (CAS#14808-60-7)	TWA (TLV) TWA (TLV)	2 mg/m ³ (no asbestos and < 1% crystalline silica) (respirable fraction) 0.025 mg/m ³ (resp.) for α-quartz and cristobalite

US. NIOSH: Pocket Guide to Chemical Hazards		
Components	Type	Value
Kaolin (CAS# 1332-58-7) Quartz (SiO ₂) (CAS#14808-60-7)	TWA (REL) TWA(REL)	10 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction) 0.05 mg/m ³

Additional information: The lists that were valid during the creation of this SDS were used as basis.

Appropriate Engineering Controls:	Provide general ventilation in processing and storage. Provide local exhaust if necessary to reduce dust levels below acceptable limits.
Respiratory Equipment:	NIOSH/OSHA or EN approved respiratory protection is recommended for use in airborne concentrations exceeding exposure limits.



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION CONT.

Hand Protection: Wear protective gloves.
 Eye Protection: Wear safety glasses.
 General Hygiene Considerations: Keep away from food, beverages and feed. Immediately remove all soiled and contaminated clothing and wash before reuse. Wash hands before breaks and at the end of work.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Powder
 Color: Off-white
 Odor: Odorless
 Odor threshold: Not determined.
 pH-Value: 6 – 8 when tested as 20% solids suspension
 Boiling point/Range: Not determined.
 Melting point/Range: 1760 °C (3200 °F)
 Flash Point: Not applicable.
 Flammability: Not available.
 Ignition Temperature: Not determined.
 Decomposition: 550 °C (1022 °F) (Dehydroxylation)
 Auto Igniting: Product is not self-igniting.
 Danger of Explosion: Product does not present an explosion hazard.
 Explosion Limits: Not available
 Vapor Pressure: Not determined.
 Relative Density: 2.63
 Vapor Density: Not applicable
 Evaporation Rate: Not determined.
 Solubility in / Miscibility with Water: Insoluble.
 Partition Coefficient: Not available.
 Log P o/w (Octanol/Water):
 Viscosity: Not determined.
 Solvent Content: 0.0 %
 Organic Solvents:
 Solids Content: 100.0 %
 Other information: No further relevant information available.

SECTION 10: STABILITY & REACTIVITY

Reactivity: No further relevant information available.
 Chemical Stability: Stable under normal conditions.
 Possibility of Hazardous Reactions: No dangerous reactions known.
 Thermal Decomposition/Conditions to Avoid: No decomposition if used according to specifications.



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SECTION 10: STABILITY AND REACTIVITY CONT.

Incompatible Materials: Contact with fluorine, oxygen difluoride, and chlorine trifluoride will cause fire. Strong oxidizing agents.
 Hazardous Decomposition Products: No dangerous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Ingestion: No information available.
 Inhalation: No information available.
 Skin Contact: Mild irritant effect
 Eye Contact: Mild irritant effect
 Symptoms Related to the Physical, Chemical and Toxicological Characteristics: No information available.
 Delayed and Immediate Effects and also Chronic Effects from Short- and Long-term Exposure: No information available.

Numerical measures of toxicity

Components	Type	Species	Test Results
Kaolin (CAS # 1332-58-7)	Oral LD ₅₀	Rat	>5000 mg/kg
	Dermal LD ₅₀	Rat	>5000 mg/kg

Carcinogenicity: **IARC (International Agency for Research on Cancer)**
 Group 1 - Carcinogenic to humans
 Group 2A - Probably carcinogenic to humans
 Group 2B - Possibly carcinogenic to humans
 Group 3 - Not classifiable as to its carcinogenicity to humans
 Group 4 - Probably not carcinogenic to humans
 "In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. May cause cancer. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled"
 Quartz (SiO₂)(CASNO#14808-60-7)- 1
NTP (National Toxicology Program)
 Quartz (SiO₂)(CASNO#14808-60-7)- K
OSHA-Ca (Occupational Safety & Health Administration)
 None of the ingredients are listed.
 The product shows the following dangers according to internally approved calculation methods for preparations:
 Irritant

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SECTION 12: ECOLOGICAL INFORMATION

Numerical Measures of Toxicity:	Not known to be hazardous to water.
Persistence and Degradability:	No further relevant information available.
Bioaccumulative Potential:	No further relevant information available.
Mobility in Soil:	No further relevant information available.
Results of PBT and vPvB Assessment:	Not applicable.
Other Adverse Effects:	No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Instructions:	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Contaminated Packaging:	Disposal must be made according to official regulations. Use water, if necessary with cleansing agents.

SECTION 14: TRANSPORT INFORMATION

Non-regulated material / Not applicable.

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture.

Sara

Section 355 (extremely hazardous substances):	None of the ingredients are listed.
Section 313 (Specific toxic chemical listings):	None of the ingredients are listed.
TSCA (Toxic Substances Control Act):	All ingredients are listed or exempt.

California Proposition 65

⚠ WARNING: Because the raw materials for our products come from the earth, our products may contain titanium dioxide and trace amounts of naturally-occurring crystalline silica and heavy metals found on the Prop 65 list including antimony, arsenic, beryllium, cadmium, cobalt, lead, nickel, vanadium, mercury, and hexavalent chromium, which are present at levels far below those covered by the Hazard Communication Standard. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/ Chemicals known to cause cancer:	Quartz (SiO ₂) (CAS#14808-60-7)- Listed date: October 1, 1988
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Carcinogenic Categories

EPA (Environmental Protection Agency):	None of the ingredients are listed.
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SECTION 15: REGULATORY INFORMATION CONT.

TLV (Threshold Limit Value established by ACGIH)
Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable.

1332-58-7	Kaolin	A4
14808-60-7	Quartz (SiO ₂)	A2

NIOSH-Ca (National Institute for Occupational Safety and Health):

Quartz (SiO₂)(CAS#14808-60-7)

GHS label elements: The substance is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:



GHS08

Signal Word:

Danger

Hazard-determining components of labeling:

Quartz (SiO₂)

Hazard statements:

May cause cancer. Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalative.

Precautionary statements:

Do not breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. If exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national/ international regulations.

National regulations:

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

State Right to Know : RTK (Listed substances)

CAS#1332-58-7	Kaolin	>99%
CAS#14808-60-7	Quartz	<1.0%

Australia - AICS / Canada -DSL / China - IECSC / Europe- EINECS / Japan- ENCS / Korea-ECL / New Zealand- NZIoC / Philippines – PICCS / Taiwan - TCSI:

All ingredients are listed or exempt.

Switzerland – EINECS:

All ingredients are existing chemicals on EINECS.

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

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SECTION 16: OTHER INFORMATION

Abbreviations and Acronyms:

ACGIH
American Conference of Governmental Industrial Hygienists

ADR
The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN
The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

AICS
Australian Inventory of Chemical Substances

CAS
Chemical Abstracts Service (division of the American Chemical Society)

DSL
Domestic substances list

DOT
US Department of Transportation

ECL
Korea Existing Chemicals List

EINECS
European INventory of Existing Commercial chemical Substances

ELINCS
European List of Notified Chemical Substances

ENCS
Existing and New Chemical Substances Inventory

HMIS
Hazardous Materials Identification System (USA)

IATA
International Air Transport Association

IECSC
Inventory of Existing Chemical Substances in China

IMDG
International Maritime Code for Dangerous Goods

NDSL
Non-domestic Substance List

NFPA
National Fire Protection Association (USA)

NLP
No-longer Polymers

NZIoC
New Zealand Inventory of Chemicals

PICCS
Philippine Inventory of Chemicals and Chemical Substances

TCSI
Taiwan Chemical Substance Inventory

Date of Last Revision: 8/24/2018

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POLYVINYL ALCOHOL (PVA)



RAM BOARD

SECTION 1: IDENTIFICATION

Product Identifier:	Polyvinyl Alcohol (PVA) BF-series
Synonyms:	PVOH
CAS Number:	9002-89-5
Application of the substance / the mixture:	Raw Material for: Synthetic resin, Adhesive, Emulsion, polymerization aid, protective colloid, vinylon fiber, paper adhesive, thickener/modifier for PVAc glues, textile sizing agent, paper coatings, release liner, water-soluble film (for packaging), biodegradable plastic backing sheet, Carbon dioxide barrier for PET bottles, Hydrographics film, PVA fiber, polyvinyl nitrate, surfactant for polymer encapsulated nanobeads, protective chemical-resistant gloves, polyvinyl butyral
Company Identification	Ram Board® Inc. Tinley Park, IL, 60487
Emergency Number:	911

SECTION 2: HAZARD(S) IDENTIFICATION

Classification of the substance or mixture:	The substance is not classified according to the Globally Harmonized System (GHS).
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Label Elements

GHS Label Elements:	None or Not Regulated
Hazard pictograms:	None or Not Regulated
Signal word:	None or Not Regulated
Hazard statements:	None or Not Regulated

Classification system

NFPA ratings (scale 0 - 4):	Health = 0 Fire = 0 Reactivity = 0
HMIS-ratings:	Health = *0 Fire = 0 Reactivity = 0

Other Hazards:	Powdered material may form explosive dust-air mixtures.
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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization: Substances

CAS No. Description:	9002-89-5 polyvinyl alcohol (fully hydrolyzed) >95%
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Dangerous Components:	
67-56-1 Methanol	<3%

SECTION 4: FIRST-AID MEASURES

After Inhalation:	Supply fresh air; consult doctor in case of complaints.
After Skin Contact:	Generally the product does not irritate the skin. Rinse cautiously with water for several minutes.
After Eye Contact:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After Swallowing:	Do not induce vomiting unless directed to do so by medical personnel. Seek immediate medical advice. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eye, skin, nose, and throat.
Most Important Symptoms and Effects, Both Acute and Delayed:	Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.
Indication of Any Immediate Medical Attention and Special Treatment Needed:	

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Agents:	Alcohol resistant foam, Fire-extinguishing powder, Carbon dioxide, Water spray
Special Hazards Arising From the Substance or Mixture:	The product in the delivered form is not dust explosion capable. However, the enrichment of fine dust can lead to the danger of dust explosion.
Protective Equipment:	Wear fully protective suit. Wear self-contained respiratory protective device.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:	Ensure adequate ventilation. Avoid formation of dust. Use respiratory protective device against the effects of fumes/dust/aerosol. Product forms slippery surface when combined with water.
Environmental Precautions:	Do not allow to enter sewers/ surface or ground water.
Methods and Material for Containment And Cleaning Up:	Sweep up. Contain spilled material if possible. Collect in suitable and properly labeled containers. Pick up and arrange disposal without creating dust. Dispose contaminated material as waste according to item 13. Dispose of the collected material according to regulations.
Reference to Other Sections:	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:	Prevent formation of dust. Use local exhaust ventilation if dust and aerosol are formed during handling. Any deposit of dust which cannot be avoided must be regularly removed. Ensure good ventilation/exhaustion at the workplace.
Information about protection against explosions and fires:	Dust can combine with air to form an explosive mixture. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Protect against electrostatic charges.

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POLYVINYL ALCOHOL (PVA)



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SECTION 7: HANDLING AND STORAGE CONT.

Requirements to be met by storerooms and receptacles:	Store in cool, dry place in tightly closed receptacles.
Further information about storage conditions:	Protect from humidity and water. Protect from heat and direct sunlight. Store receptacle in a well ventilated area.
Specific end use(s):	No further relevant information available.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Additional information about design of technical systems:	Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. Local exhaust ventilation may be necessary for some operations. Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.
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Control Parameters

Components with limit values that require monitoring at the workplace:	
67-56-1 methanol	
PEL REL	Long-term value: 260 mg/m ³ , 200 ppm Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin
TLV	Short-term value: 328 mg/m ³ , 250 ppm Long-term value: 262 mg/m ³ , 200 ppm Skin; BEI

Ingredients with biological limit values:	
67-56-1 methanol	
BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)

General protective and hygienic measures:	Wash hands before breaks and at the end of work. Do not eat, drink, smoke or sniff while working.
Breathing equipment:	Suitable respiratory protective device recommended.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION CONT.

Protection of hands:	Protective gloves. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Material of Gloves:	Nitrile rubber, NBR The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
Penetration Time of Glove Material:	The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye Protection:	Safety glasses with side shields conforming to EN166, ANSI 87.1-2010, or equivalent.
Body Protection:	Protective work clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Solid
Color:	White
Odor:	Odorless
Odor Threshold:	Not Determined
pH-Value:	5-7 (4wt% solution)
Melting Point / Range:	356 - 446 °F (180-230 °C)
Boiling Point / Range:	Undetermined
Flash Point:	Not applicable
Flammability (solid, gaseous)	Not applicable
Ignition Temperature:	824 °F (440 °C) (Dust)
Decomposition Temp:	>428 °F (>220 °C)
Auto Igniting:	Not determined
Danger of Explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.
Explosion Limits:	
- Lower:	35 g/m ³ (Dust)
- Upper:	6.26 kg/cm ³ (Dust)
Vapor Pressure:	Not Determined
Density:	10.264-10.932 lbs/gal (1.23-1.31 g/cm ³)
Relative Density:	Not determined
Vapor Density:	Not determined
Evaporation Rate:	Not determined
Water Solubility:	Soluble
Partition Coefficient: (n-octanol/water)	Not determined
Viscosity:	
- Dynamic:	Not determined
- Kinematic:	Not determined
- VOC Content:	2.0 %
	20.0 g/l / 0.17 lb/gal
Other Information:	No further information available

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POLYVINYL ALCOHOL (PVA)

SECTION 10: STABILITY AND REACTIVITY

Reactivity: When properly handled and stored, no dangerous reaction is known.

Chemical Stability: This product is stable under prescribed use and storage.

Thermal Decomposition / Conditions to be Avoided: No decomposition if used according to specifications. To avoid thermal decomposition do not overheat.

Possibility of Hazardous Reactions: As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion. Forms explosive gas mixture with air.

Conditions to Avoid: Protect from heat. Keep ignition sources away. Avoid static discharge.

Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition Products: Carbon monoxide and carbon dioxide / Aldehyde / Acids

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:

LD/LC50 values that are relevant for classification:		
67-56-1 methanol		
Oral	LD50	5628 mg/kg (rat)
Dermal	LD50	15800 mg/kg (rabbit)

Skin corrosion/irritation: Not classified based on available data. Dust particles may mechanically irritate the skin/eye.

Serious eye damage/ eye irritation: Not classified based on available data. Dust particles may mechanically irritate the skin/eye.

Primary Irritant Effect

On the Skin: Dust particles may mechanically irritate the skin/eye.

On the Eye: Dust particles may mechanically irritate the skin/eye.

Sensitization: No sensitizing effects known.

Additional Toxicological Information: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. The substance is not subject to classification.

Carcinogenic Categories

IARC (International Agency for Research on Cancer): 9002-89-5 | polyvinyl alcohol (fully hydrolyzed)

NTP (National Toxicology Program): Substance is not listed.

OSHA-Ca (Occupational Safety & Health Administration): Substance is not listed.



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SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity: Not classified based on available data.

9002-89-5 polyvinyl alcohol (fully hydrolyzed): LC50/96h | >10000 mg/l (fish)

Persistence and Degradability: Easily biodegradable

Additional Ecological Information: Degradation : ~90% (30d, OECD N/A; B.O.D.)
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. Any disposal method should also comply with national, regional, provincial, and local laws.

Uncleaned Packagings: Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

None or not regulated

SECTION 15: REGULATORY INFORMATION

Sara

Section 355 (extremely hazardous substances): Substance is not listed.

Section 313 (Specific toxic chemical listings): 67-56-1 methanol

TSCA (Toxic Substances Control Act): Substance is listed.

Proposition 65

Chemicals known to cause cancer: Substance is not listed.

Chemicals known to cause reproductive toxicity for females: Substance is not listed.

Chemicals known to cause reproductive toxicity for males: Substance is not listed.

Chemicals known to cause developmental toxicity: 67-56-1 methanol

Carcinogenic Categories

EPA (Environmental Protection Agency): Substance is not listed.

TLV (Threshold Limit Value established by ACGIH): Substance is not listed.

NIOSH-Ca (National Institute for Occupational Safety and Health): Substance is not listed.

Status of global inventories

All component(s) within this product is listed or exempted from the following country's chemical inventory:

USA - TSCA
Australia - AICS
Canada - DSL
China - IECSC
Japan - ENCS
Korea - KECI
New Zealand - NZIoC
Philippine - PICCS
Taiwan - ECSI
Mexico - INSQ

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POLYVINYL ALCOHOL (PVA)



SECTION 16: OTHER INFORMATION

Abbreviations and Acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
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CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

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